

DESCRIPTION

PMI MODEL NUMBER: P4T-2G18G-60-T-512-SFF-LV IS A 2.0 GHz TO 18.0 GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 60dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 3.2dB. IT HAS A SWITCHING SPEED OF 50ns AND IS INDEPENDENTLY TTL CONTROLLED. THE OPERATING POWER IS +23dBm CW AND THE VSWR IS 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0GHz TO 18.0GHz
- INSERTION LOSS: 3.2dB MAX
- INSERTION LOSS TRACKING BETWEEN PORTS: 0.8 dB Window MAX
- ISOLATION: 60dB MIN
- VSWR: 2.0:1 MAX
- SPEED: 50ns MAX
- SWITCHING RATE PRF: 50% TTL TO 10%/90% RF
- SWITCHING RATE PRF: 5MHz
- VIDEO LEAKAGE: 50mV Peak-Peak Max / Mesured @ 300MHz BW
- INPUT POWER: +23dBm CW MAX (Operating)
- SURVIVAL POWER: +27dBm CW MAX
- CONTROL TTL: 4 LINE INDEPENDENT
 - LOGIC "0" = INSERTION LOSS / (1.6mA Max. Sink @ 0.4V)
 - LOGIC "1" = ISOLATION / (40uA Max. Source @ 2.4V)
- POWER SUPPLY: +5VDC @ 120mA MAX
 - 12VDC @ 75mA MAX
- RF CONNECTORS: SMA(F) – Passive Stainless Steel
- CONTROL, POWER, AND GROUND: SOLDER PINS
- SEALING: HERMETIC SEALED
- SIZE: (L) 2.0" X (W) 1.0" X (H) 0.4"
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

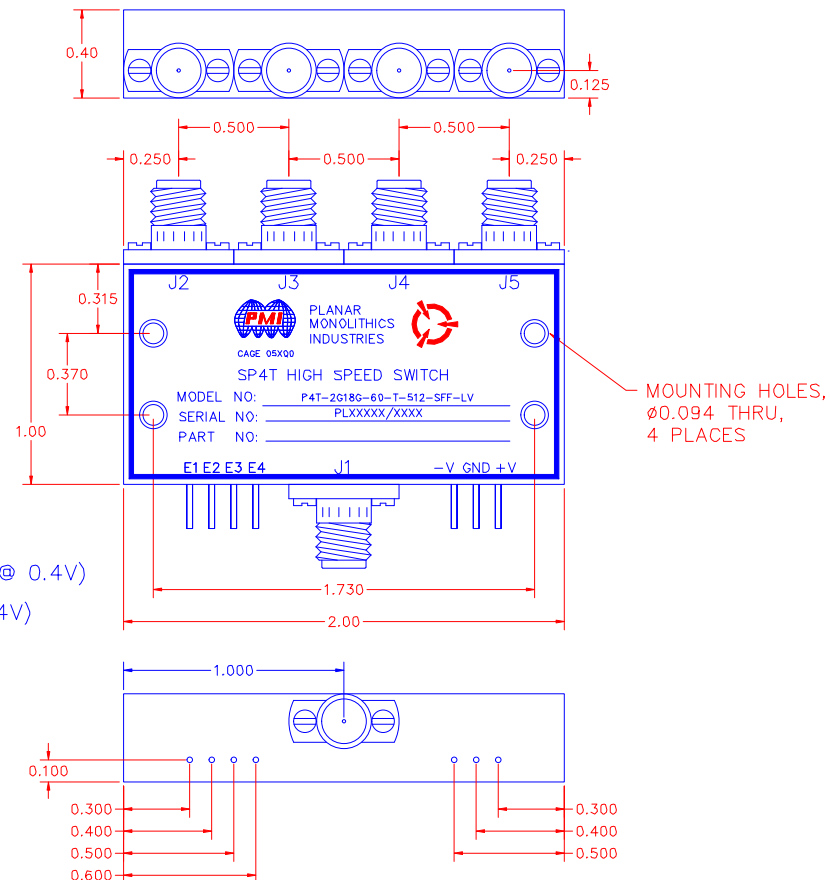
- TEMPERATURE: -54°C TO +85°C (OPERATING)
- TEMPERATURE: -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. G
- SALT FOG: MIL-STD-202F, METHOD 101D+EST COND. B
- FUNGUS: MIL-STD-810F, METHOD 508.5

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/01/13	
	A1	ECN # 14-0022	02/10/14	
	A2	ECN # 24-0188	07/08/24	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>ANB</i>		10/01/13	PRODUCT FEATURE		
CHECKED			P4T-2G18G-60-T-512-SFF-LV		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27020021
			SCALE N: S		REV. A2
			SHEET 1 OF 1		